



Reliance Industries Limited

Polyethylene Terephthalate
Relpet® G5761 **Copolymer PET**

Product description and applications
Relpet® G5761 is bottle grade PET resin manufactured using DuPont's technology.
Relpet® G5761 is typically used for still water and APET sheet applications.

Features
Relpet® G5761 is engineered to provide:

- Good process ability
- Low preform AA and
- Excellent clarity / gloss in bottles

Typical properties of Relpet® G5761 are as follows

Sl. No.	Property	Unit	Value	Range	Equipment / Test method
1	Intrinsic Viscosity (IV)	dl/g	0.76	± 0.02	Ubbelohde Viscometer / ASTM D 4603 - 03
2	Acetaldehyde (AA)	ppm	1.0	Max.	Head Space & Gas Chromatography / QAF-PCL-3.413
3	Colour b *	CIE	0 to -3	-	Hunterlab / QAF-PCL-3.211
4	Crystallinity	%	50	Min.	Density Gradient Column / QAF-PCL-3.415
5	Chips /g	No.	68	± 5	Weightment method / QAF-PCL-3.408
6	Fines	ppm	100	Max	Sieve Shaker / QAF-PCL-3.407

Certifications

Relpet® G5761 resin is considered safe for food-packaging applications based on compliance with FDA regulation 21 CFR Section 177.1630 and similar food contact safety regulations, manufactured as per ISO 22000 certified system (FSMS) Relpet® is the registered trademark of Reliance Industries Limited for its brand of Polyethylene Terephthalate resin.



RIL's Hazira PET resin test methods (Sl # 1 to 4) are accredited as per National Accreditation Board for Testing & Calibration Laboratories India with certificate numbers T-0797&T-0798

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Reliance Industries Limited

Polyethylene Terephthalate

Relpet[®] H7761

Hot fill applications

Product description and applications

Relpet[®] H7761 is bottle grade PET resin manufactured using Du Pont's technology.

Relpet[®] H7761 is specially formulate for hot filling of products like Juices, Ice Tea, Isotonic drinks etc.

Features

Relpet[®] H7761 is engineered to provide:

- Good process ability
- Higher neck and body crystallinity
- Excellent clarity and gloss

Typical properties of Relpet[®] H7761 are as follows:

Sl. No.	Property	Unit	Value	Range	Equipment / Test method
1	Intrinsic Viscosity (IV)	dl/g	0.76	± 0.02	Ubbelohde Viscometer / ASTM D 4603 - 03
2	Acetaldehyde (AA)	ppm	1.0	Max.	Head Space & Gas Chromatography / QAF-PCL-3.413
3	Colour b*	CIE	0 to -3	-	Hunterlab / QAF-PCL-3.211
4	Crystallinity	%	50	Min.	Density Gradient Column / QAF-PCL-3.415
5	Chips /g	No	68	± 5	Balance / QAF-PCL-3.408
6	Fines	ppm	100	Max	Sieve Shaker / QAF-PCL-3.407

Note: IV as per QAF-PCL-3.414 (Ubbelohde Viscometer) is 0.78 dl/g

Certifications

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Reliance Industries Limited

Polyethylene Terephthalate
Relpet® G5801 Copolymer PET

Product description and applications

Relpet® G5801 is bottle grade PET resin manufactured using DuPont's technology.

It is typically used for:

- Various foods, beverages, water etc.
- Containers for FMCG such as cosmetics, hair-oil, disinfectants
- Pharmaceuticals
- APET sheet and PET strapping

Features

Relpet® G5801 is engineered to provide

- Good processability
- Excellent clarity/gloss
- Properties balanced for wide range of general purpose usages.

Typical properties of Relpet® G5801 are as follows:

Sl. No.	Property	Unit	Value	Range	Equipment / Test method
1	Intrinsic Viscosity (IV)	dl/g	0.80	± 0.02	Ubbelohde Viscometer / ASTM D 4603 - 03
2	Acetaldehyde (AA)	ppm	1.0	Max.	Head Space & Gas Chromatography / QAF-PCL-3.413
3	Colour b*	CIE	0 to -3.	-	Hunterlab / QAF-PCL-3.211
4	Crystallinity	%	50	Min.	Density Gradient Column / QAF-PCL-3.415
5	Chips /g	No.	68	± 5	Weighment method / QAF-PCL-3.408
6	Fines	ppm	100	Max	Sieve Shaker / QAF-PCL-3.407

Certifications

Relpet® G5801 resin is considered safe for food-packaging applications based on compliance with FDA regulation 21 CFR Section 177.1630 and other similar food contact safety regulations, manufactured as per ISO 22000 certified system (FSMS). Relpet® is the registered trademark of Reliance Industries Limited for its brand of Polyethylene Terephthalate resin.



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Polyethylene Terephthalate	
Relpet® QH5821	Copolymer PET

Product description and applications
 Relpet® QH5821 is a fast reheat type bottle grade PET resin manufactured using Du Pont's technology.
 It is widely used for aerated drinks.

Features
 This grade is engineered for enhanced energy absorption which can result in increased output or reduced heating load and better process flexibility during blowing.

Typical properties of Relpet® QH5821 are as follows:

Sl. No.	Property	Unit	Value	Range	Equipment / Test method
1	Intrinsic Viscosity (IV)	dl/g	0.84	+/- 0.02	Ubbelohde Viscometer / ASTM D 4603 - 03
2	Acetaldehyde (AA)	ppm	1.0	Max	Head Space & Gas Chromatography / QAF-PCL-3.413
3	Colour b*	CIE	-3.0 to -5.0	-	Hunterlab / QAF-PCL-3.211
4	Crystallinity	%	50	Min	Density Gradient Column / QAF-PCL-3.415
5	Chips /g	No.	68	± 5	Weighment Method / QAF-PCL-3.408
6	Fines	ppm	100	Max	Sieve Shaker / QAF-PCL-3.407

Certifications

Relpet® QH5821 resin is considered safe for food-packaging applications based on compliance with FDA regulation 21 CFR Section 177.1630 & other similar food contact safety regulations, manufactured as per ISO 22000 certified system (FSMS).

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Reliance Industries Limited

Polyethylene Terephthalate	
Relpet® G5841	Copolymer PET

Product description and applications

Relpet® G5841 is bottle grade PET resin manufactured using Du Pont's technology.

It is typically used for:

- Aerated drinks.
- Agro chemicals
- APET sheet and PET strapping

Features

Relpet® G5841 is engineered to provide:

- Good process ability
- Excellent clarity/gloss
- Very Good mechanicals

Typical properties Relpet® G5841 are as follows:

Sl. No.	Property	Unit	Value	Range	Equipment / Test method
1	Intrinsic Viscosity (IV)	dl/g	0.84	± 0.02	Ubbelohde Viscometer / ASTM D 4603 - 03
2	Acetaldehyde (AA)	Ppm	1.0	Max.	Head Space & Gas Chromatography / QAF-PCL-3.413
3	Colour b*	CIE	0 to -3.	-	Hunterlab / QAF-PCL-3.211
4	Crystallinity	%	50	Min.	Density Gradient Column / QAF-PCL-3.415
5	Chips /g	No.	68	± 5	Weighment method / QAF-PCL-3.408
6	Fines	ppm	100	Max	Sieve Shaker / QAF-PCL-3.407

Certifications

Relpet® G5841 resin is considered safe for food-packaging applications based on compliance with FDA regulation 21 CFR Section 177.1630 & other similar food contact safety regulations, manufactured as per ISO 22000 certified system (FSMS). Relpet® is the registered trademark of Reliance Industries Limited for its brand of Polyethylene Terephthalate resin.



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